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(FILE 'HOME' ENTERED AT 16:11:14 ON 20 OCT 2001)

FILE 'HCAPLUS' ENTERED AT 16:11:31 ON 20 OCT 2001

E DEAR TERENCE/AU 25

E DEAR T/AU 25

L1 1 S (E4 OR E5 OR E6) AND (PATENT)/DT

E KERATINIZATION/CT

E E3+ALL

E SKIN, DISEASE (L) KERATINIZATION/CT

E E3+ALL

E HAIR/CT

E E3+ALL

L2 23257 S (SKIN (L) KERATINIZATION) OR (SKIN, DISEASE (L) KERATINIZATIO

L3 2946 S L2 (L) ((HAIR (L) ANIMAL) OR HAIR)

L4 77 S L3 (L) (PROTEASE OR PROTEINASE)

L5 56 S L4 AND PD<19970820

L6 2 S L5 AND REGULA?

=> d ibib ab 1-2

L6 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1995:989881 HCAPLUS

DOCUMENT NUMBER: 124:51800

TITLE: Message of nexin 1, a serine protease inhibitor, is accumulated in the follicular papilla during anagen of the hair cycle

AUTHOR(S): Yu, Da-Wen; Yang, Tian; Sonoda, Tadashige; Gaffney, Kevin; Jensen, Pamela J.; Dooley, Tom; Ledbetter, Steve; Freedberg, Irwin M.; Lavker, Robert; et al.

CORPORATE SOURCE: Ronald O. Perelman Department Dermatology, NYU School Medicine, New York, NY, 10016, USA

SOURCE: J. Cell Sci. (1995), 108(12), 3867-74

CODEN: JNCSAI; ISSN: 0021-9533

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A group of specialized mesenchymal cells located at the root of the mammalian hair follicle, known as the follicular or dermal papillary cells, are involved in regulating the hair cycle, during which keratinocytes of the lower follicle undergo proliferation, degeneration and regrowth. Using the arbitrarily primed-PCR approach, we have identified a 1.3 kb mRNA that is present in large quantities in cultured rat follicular papillary cells, but not in skin fibroblasts. This mRNA encodes nexin 1, a potent protease inhibitor that can inactivate several growth-modulating serine proteases including thrombin, urokinase and tissue plasminogen activator. In situ hybridization showed that nexin 1 message is accumulated in the follicular papilla cells of anagen follicles, but is undetectable in keratinocytes or other skin mesenchymal cells. In addn., nexin 1 message level varies widely among several immortalized rat vibrissa papillary cell lines, and these levels correlate well with the reported abilities of these cell lines to support in vivo follicular reconstitution. These results suggest a possible role of nexin 1 in regulating hair follicular growth.

L6 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1995:745616 HCAPLUS

DOCUMENT NUMBER: 123:247554

TITLE: Immortalized rat whisker dermal papilla cells cooperate with mouse immature hair follicle buds to activate type IV procollagenases in collagen matrix coculture: correlation with ability to promote hair follicle development in nude mouse grafts

AUTHOR(S): Scandurro, Aline B.; Wang, Qizhi; Goodman, Linda; Ledbetter, Stephen; Dooley, Thomas P.; Yuspa, Stuart H.; Lichti, Ulrike

CORPORATE SOURCE: Laboratory of Cellular Carcinogenesis and Tumor Promotion, National Institutes of Health, Bethesda, MD, USA

SOURCE: J. Invest. Dermatol. (1995), 105(2), 177-83

CODEN: JIDEAE; ISSN: 0022-202X

DOCUMENT TYPE: Journal

LANGUAGE: English

AB An in vivo nude mouse graft model and an in vitro collagen matrix culture system were used to study interactions of immature hair follicle buds from newborn mice with clonally derived AdE1A-12S-immortalized rat whisker dermal papilla cell lines. Of the 19 available dermal papilla cell lines, four consistently supported good hair follicle development and hair growth in grafts. Seven cell lines were clearly neg. in this assay, and the remaining eight cell lines yielded poor to moderate hair growth. As a correlate to in vivo extracellular matrix remodeling accompanying hair follicle development, type IV collagenase activity in the medium from cocultures of dermal papilla cells and hair follicle buds was analyzed by gelatin zymog. Hair follicle buds cultured alone secrete primarily the 92-kDa type IV procollagenase. Cocultivation of hair follicle buds with eight of the dermal papilla cell lines

resulted in activation of this proenzyme and activation of the 72-kDa and 92-kDa type IV procollagenases produced by the dermal papilla cells. Seven of these eight dermal papilla cell lines support hair growth in the graft system. In the absence of dermal papilla cells, several growth factors induced activation of the 92-kDa procollagenase secreted by hair follicle buds cultured in serum-free medium: epidermal growth factor, transforming growth factor alpha, acidic fibroblast growth factor, and keratinocyte growth factor. The current working hypothesis is that (1) hair follicle epithelial cells interact with dermal papilla cells in coculture by mutual induction of growth factors and cytokines that stimulate the release and activation of matrix remodeling proteases; and (b) the ability of dermal papilla cells to interact with hair follicle epithelial cells in this way may be crucial for controlled dermal matrix remodeling during HF development.

=> d ti 15 1-56

L5 ANSWER 1 OF 56 HCAPLUS COPYRIGHT 2001 ACS

TI Hair analysis method

L5 ANSWER 2 OF 56 HCAPLUS COPYRIGHT 2001 ACS

TI Identification of animal hair fibers using DNA profiling techniques

L5 ANSWER 3 OF 56 HCAPLUS COPYRIGHT 2001 ACS

TI Mycological and some physiological studies of keratinophilic and other molds associated with sheep wool

L5 ANSWER 4 OF 56 HCAPLUS COPYRIGHT 2001 ACS

TI Proteinase K activities from *Talaromyces flavus*, with respect to its keratin hydrolyzing enzymes

L5 ANSWER 5 OF 56 HCAPLUS COPYRIGHT 2001 ACS

TI Targeted disruption of the pemphigus vulgaris antigen (desmoglein 3) gene in mice causes loss of keratinocyte cell adhesion with a phenotype similar to pemphigus vulgaris

L5 ANSWER 6 OF 56 HCAPLUS COPYRIGHT 2001 ACS

TI Trypsin-induced follicular papilla apoptosis results in delayed hair growth and pigmentation

L5 ANSWER 7 OF 56 HCAPLUS COPYRIGHT 2001 ACS

TI Hair preparations containing protease-bound carriers

L5 ANSWER 8 OF 56 HCAPLUS COPYRIGHT 2001 ACS

TI Message of nexin 1, a serine protease inhibitor, is accumulated in the follicular papilla during anagen of the hair cycle

L5 ANSWER 9 OF 56 HCAPLUS COPYRIGHT 2001 ACS

TI Hair analysis method

L5 ANSWER 10 OF 56 HCAPLUS COPYRIGHT 2001 ACS

TI Enzymes and their application in tanning technology

L5 ANSWER 11 OF 56 HCAPLUS COPYRIGHT 2001 ACS

TI Elution agent for chemically modified animal hair keratins

L5 ANSWER 12 OF 56 HCAPLUS COPYRIGHT 2001 ACS

TI Immortalized rat whisker dermal papilla cells cooperate with mouse immature hair follicle buds to activate type IV procollagenases in collagen matrix coculture: correlation with ability to promote hair follicle development in nude mouse grafts

L5 ANSWER 13 OF 56 HCAPLUS COPYRIGHT 2001 ACS

TI Method for manufacturing seasoning oil by use of oligokeratin

L5 ANSWER 14 OF 56 HCAPLUS COPYRIGHT 2001 ACS

TI Enzymic digestion of hair or other keratinized structure for ligand assay

L5 ANSWER 15 OF 56 HCAPLUS COPYRIGHT 2001 ACS

TI Hair analysis method

L5 ANSWER 16 OF 56 HCAPLUS COPYRIGHT 2001 ACS

TI Immunolocalization of stratum corneum chymotryptic enzyme in human skin and oral epithelium with monoclonal antibodies: evidence of a proteinase specifically expressed in keratinizing squamous epithelia

L5 ANSWER 17 OF 56 HCAPLUS COPYRIGHT 2001 ACS

TI Protease of a keratinolytic streptomycete to unhair goat skin

L5 ANSWER 18 OF 56 HCAPLUS COPYRIGHT 2001 ACS

TI Method for extracting soluble keratin from animal hair or hoof

L5 ANSWER 19 OF 56 HCAPLUS COPYRIGHT 2001 ACS
TI Biochemical and immunological studies of neutral protease. Localization and extraction in vivo

L5 ANSWER 20 OF 56 HCAPLUS COPYRIGHT 2001 ACS
TI Analysis of hair and other keratinized structures for drugs of abuse and other substances

L5 ANSWER 21 OF 56 HCAPLUS COPYRIGHT 2001 ACS
TI Detection of keratinolytic proteinase in skin tissues from guinea pigs infected with *Microsporum canis* by an immunoperoxidase technique

L5 ANSWER 22 OF 56 HCAPLUS COPYRIGHT 2001 ACS
TI Enzymic manufacture of SH or disulfide group-containing keratin hydrolyzates

L5 ANSWER 23 OF 56 HCAPLUS COPYRIGHT 2001 ACS
TI Enzymic manufacture of cystine-retaining keratin hydrolyzates

L5 ANSWER 24 OF 56 HCAPLUS COPYRIGHT 2001 ACS
TI Purification and characterization of an extracellular proteinase from *Hendersonula toruloidea*

L5 ANSWER 25 OF 56 HCAPLUS COPYRIGHT 2001 ACS
TI Method of proteolytic enzymes purification on keratin

L5 ANSWER 26 OF 56 HCAPLUS COPYRIGHT 2001 ACS
TI Preliminary characterization of extracellular proteolytic enzymes of dermatophytes by chromogenic substrates

L5 ANSWER 27 OF 56 HCAPLUS COPYRIGHT 2001 ACS
TI Epidermal and hair follicle transglutaminases. Partial characterization of soluble enzymes in newborn mouse skin

L5 ANSWER 28 OF 56 HCAPLUS COPYRIGHT 2001 ACS
TI Isolation, purification and characterization of keratinolytic proteinase from *Microsporum canis*

L5 ANSWER 29 OF 56 HCAPLUS COPYRIGHT 2001 ACS
TI Role of proteolytic enzymes produced by certain keratinophilic fungi in keratin degradation

L5 ANSWER 30 OF 56 HCAPLUS COPYRIGHT 2001 ACS
TI Purification and characterization of keratin hydrolase in psoriatic epidermis: application of keratin-agarose plate and keratin-polyacrylamide enzymography methods

L5 ANSWER 31 OF 56 HCAPLUS COPYRIGHT 2001 ACS
TI Keratinolytic proteinase produced by *Candida albicans*

L5 ANSWER 32 OF 56 HCAPLUS COPYRIGHT 2001 ACS
TI Isolation and characterization of proteinase from *Candida albicans*: substrate specificity

L5 ANSWER 33 OF 56 HCAPLUS COPYRIGHT 2001 ACS
TI Keratin hydrolyzates for hair preparations

L5 ANSWER 34 OF 56 HCAPLUS COPYRIGHT 2001 ACS
TI Keratin polymer and composition containing it

L5 ANSWER 35 OF 56 HCAPLUS COPYRIGHT 2001 ACS
TI Isolation of an extracellular proteinase (keratinase) from *Microsporum canis*

L5 ANSWER 36 OF 56 HCAPLUS COPYRIGHT 2001 ACS
TI Production of low-molecular-weight keratin

L5 ANSWER 37 OF 56 HCAPLUS COPYRIGHT 2001 ACS
 TI A keratin-decomposing streptomycete

L5 ANSWER 38 OF 56 HCAPLUS COPYRIGHT 2001 ACS
 TI Enzymatic digestion of hair components

L5 ANSWER 39 OF 56 HCAPLUS COPYRIGHT 2001 ACS
 TI Method and apparatus for conversion and separation of dissolved or soluble substances contained or introduced into a carrier liquid

L5 ANSWER 40 OF 56 HCAPLUS COPYRIGHT 2001 ACS
 TI Isolation of melanin pigments from human hair

L5 ANSWER 41 OF 56 HCAPLUS COPYRIGHT 2001 ACS
 TI Keratin hydrolysates and oligopeptide-containing composition contained in them .

L5 ANSWER 42 OF 56 HCAPLUS COPYRIGHT 2001 ACS
 TI Studies on actinomycetes of Egyptian soil. 7. Effect of continuous incubation on keratin hydrolysis with reference to peptide fractionation

L5 ANSWER 43 OF 56 HCAPLUS COPYRIGHT 2001 ACS
 TI Isolation and characterization of melanin from wool and hair

L5 ANSWER 44 OF 56 HCAPLUS COPYRIGHT 2001 ACS
 TI Proteolytic enzyme and the microorganism which manufactures it

L5 ANSWER 45 OF 56 HCAPLUS COPYRIGHT 2001 ACS
 TI Studies on the proteolytic ectoenzymes of dermatophytes *Microsporum gypseum*. I. Proteolytic activity of the culture liquid

L5 ANSWER 46 OF 56 HCAPLUS COPYRIGHT 2001 ACS
 TI Keratin decomposition by dermatophytes. II. Presence of S-sulfocysteine and cysteic acid in soluble decomposition products

L5 ANSWER 47 OF 56 HCAPLUS COPYRIGHT 2001 ACS
 TI Action and specificity of a *Streptomyces* alkalophilic proteinase

L5 ANSWER 48 OF 56 HCAPLUS COPYRIGHT 2001 ACS
 TI Role of cathepsin D in the pathogenesis of tuberculosis. Histochemical study employing unlabeled antibodies and peroxidase-antiperoxidase complex

L5 ANSWER 49 OF 56 HCAPLUS COPYRIGHT 2001 ACS
 TI Keratin decomposition by dermatophytes. I. Sulfite production as a possible way of substrate denaturation

L5 ANSWER 50 OF 56 HCAPLUS COPYRIGHT 2001 ACS
 TI Enzymologic studies of keratinophilic saprophytes and pathogenic dermatophytes

L5 ANSWER 51 OF 56 HCAPLUS COPYRIGHT 2001 ACS
 TI The enzymic dehairing of hides and skins by a proteinase from *Bacillus subtilis*

L5 ANSWER 52 OF 56 HCAPLUS COPYRIGHT 2001 ACS
 TI Enzymic unhairing materials. IV. Unhairing ability of protease of *Bacillus subtilis*

L5 ANSWER 53 OF 56 HCAPLUS COPYRIGHT 2001 ACS
 TI A general method for moderate partial hydrolysis of scleroproteins and its application to silk fibroin

L5 ANSWER 54 OF 56 HCAPLUS COPYRIGHT 2001 ACS
 TI Mechanism of unhairing hides and skins by means of certain proteolytic or amylolytic enzymes

L5 ANSWER 55 OF 56 HCAPLUS COPYRIGHT 2001 ACS

TI Mechanism of unhairing hides and skins by means of certain proteolytic or
amylolytic enzymes

L5 ANSWER 56 OF 56 HCAPLUS COPYRIGHT 2001 ACS

TI Studies on the microbiological degradation of wool-digestion of normal and
modified fibrillar proteins

=> s kallikrein/cn
L1 1 KALLIKREIN/CN

=> d

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS
RN 9001-01-8 REGISTRY
CN **Kallikrein (9CI)** (CA INDEX NAME)
OTHER NAMES:
CN Arginine esteropeptidase
CN Bradykininogenase
CN Callicrein
CN Depot-Padutin
CN Dilminal D
CN E.C. 3.4.21.34
CN E.C. 3.4.21.35
CN E.C. 3.4.21.8
CN E.C. 3.4.4.21
CN Follipsin
CN Glumorin
CN Kallidin-releasing enzyme
CN Kallidinogenase
CN Kallikrein rK9
CN Kininogenase
CN Kininogenin
CN Onokrein P
CN Padreatin
CN Padutin
CN Promotin
CN SK 827
CN Substance R
CN Substance R (enzyme)
CN T-Kininogenase
CN Tissue kallikrein
CN Urinary kallikrein
CN Urokallikrein
DR 9049-61-0, 50815-01-5, 65339-91-5, 37206-15-8, 157186-07-7
MF Unspecified
CI COM, MAN
LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA,
CAPLUS, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DRUGU,
EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, NAPRALERT,
NIOSHTIC, PHAR, PROMT, RTECS*, TOXLINE, TOXLIT, USAN, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)

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107 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
5325 REFERENCES IN FILE CAPLUS (1967 TO DATE)

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Refine Search:

113 and keratinization

Clear

Search History

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<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT	113 and keratinization	18	L14
USPT	112 and regulat\$8	154	L13
USPT	111 and @ad<19970820	266	L12
USPT	(proteinase\$1 or protease\$1) and hair and keratin\$8	355	L11
USPT	19 or 18 or 17 or 16 or 15 or 14 or 13 or 12 or 11	5674	L10
USPT	((424/94.63)!.CCLS.))	339	L9
USPT	((424/94.6)!.CCLS.))	247	L8
USPT	((424/94.1)!.CCLS.))	422	L7
USPT	((435/219)!.CCLS.))	666	L6
USPT	((435/195)!.CCLS.))	377	L5
USPT	((435/183)!.CCLS.))	1066	L4
USPT	((435/23)!.CCLS.))	582	L3
USPT	((435/18)!.CCLS.))	754	L2
USPT	((435/4)!.CCLS.))	2305	L1

WEST

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Search Results - Record(s) 1 through 18 of 18 returned.

☐ 1. Document ID: US 6136780 A

L14: Entry 1 of 18

File: USPT

Oct 24, 2000

US-PAT-NO: 6136780

DOCUMENT-IDENTIFIER: US 6136780 A

TITLE: Control of cancer growth through the interaction of [Met.sup.5]-enkephalin and the zeta (.zeta.) receptor

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 2. Document ID: US 6126935 A

L14: Entry 2 of 18

File: USPT

Oct 3, 2000

US-PAT-NO: 6126935

DOCUMENT-IDENTIFIER: US 6126935 A

TITLE: Pellets obtained from cell cultures of keratinocytes and their use in wound healing

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 3. Document ID: US 6057298 A

L14: Entry 3 of 18

File: USPT

May 2, 2000

US-PAT-NO: 6057298

DOCUMENT-IDENTIFIER: US 6057298 A

TITLE: Keratin K1 expression vectors and methods of use

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 4. Document ID: US 6046027 A

L14: Entry 4 of 18

File: USPT

Apr 4, 2000

US-PAT-NO: 6046027

DOCUMENT-IDENTIFIER: US 6046027 A

TITLE: Human retinoid binding protein

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 5. Document ID: US 6028118 A

L14: Entry 5 of 18

File: USPT

Feb 22, 2000

US-PAT-NO: 6028118

DOCUMENT-IDENTIFIER: US 6028118 A

TITLE: Methods of using extracts of shark cartilage

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 6. Document ID: US 5955305 A

L14: Entry 6 of 18

File: USPT

Sep 21, 1999

US-PAT-NO: 5955305

DOCUMENT-IDENTIFIER: US 5955305 A

TITLE: Human retinoid binding protein

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 7. Document ID: US 5914265 A

L14: Entry 7 of 18

File: USPT

Jun 22, 1999

US-PAT-NO: 5914265

DOCUMENT-IDENTIFIER: US 5914265 A

TITLE: Keratin K1 expression vectors and methods of use

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 8. Document ID: US 5866167 A

L14: Entry 8 of 18

File: USPT

Feb 2, 1999

US-PAT-NO: 5866167

DOCUMENT-IDENTIFIER: US 5866167 A

TITLE: Non-viable total keratinocyte lysate for promoting wound healing

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 9. Document ID: US 5858987 A

L14: Entry 9 of 18

File: USPT

Jan 12, 1999

US-PAT-NO: 5858987

DOCUMENT-IDENTIFIER: US 5858987 A

TITLE: E6AP antisense constructs and methods of use

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 10. Document ID: US 5834290 A

L14: Entry 10 of 18

File: USPT

Nov 10, 1998

US-PAT-NO: 5834290

DOCUMENT-IDENTIFIER: US 5834290 A

TITLE: Recombinant stratum corneum chymotryptic enzyme (SCCE)

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 11. Document ID: US 5753612 A

L14: Entry 11 of 18

File: USPT

May 19, 1998

US-PAT-NO: 5753612

DOCUMENT-IDENTIFIER: US 5753612 A

TITLE: Pharmaceutical composition and method for inhibiting hair growth by administration of activin or activin agonists

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 12. Document ID: US 5744499 A

L14: Entry 12 of 18

File: USPT

Apr 28, 1998

US-PAT-NO: 5744499

DOCUMENT-IDENTIFIER: US 5744499 A

TITLE: Apoptosis-modulating factors influencing the intracellular concentration of methional/malondialdehyde

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 13. Document ID: US 5712252 A

L14: Entry 13 of 18

File: USPT

Jan 27, 1998

US-PAT-NO: 5712252

DOCUMENT-IDENTIFIER: US 5712252 A

TITLE: Method of augmenting soft tissue in mammals

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 14. Document ID: US 5614489 A

L14: Entry 14 of 18

File: USPT

Mar 25, 1997

US-PAT-NO: 5614489

DOCUMENT-IDENTIFIER: US 5614489 A

TITLE: Method and composition for treating the skin

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 15. Document ID: US 5565439 A

L14: Entry 15 of 18

File: USPT

Oct 15, 1996

US-PAT-NO: 5565439

DOCUMENT-IDENTIFIER: US 5565439 A

TITLE: Methods of using lysophosphatidic acid for treating hyperproliferative conditions

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 16. Document ID: US 5387576 A

L14: Entry 16 of 18

File: USPT

Feb 7, 1995

US-PAT-NO: 5387576

DOCUMENT-IDENTIFIER: US 5387576 A

TITLE: Treatment of hyperproliferative epidermal conditions with activin A

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 17. Document ID: US 5091173 A

L14: Entry 17 of 18

File: USPT

Feb 25, 1992

US-PAT-NO: 5091173

DOCUMENT-IDENTIFIER: US 5091173 A

TITLE: Hair growth composition

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 18. Document ID: US 4868116 A

L14: Entry 18 of 18

File: USPT

Sep 19, 1989

US-PAT-NO: 4868116

DOCUMENT-IDENTIFIER: US 4868116 A

TITLE: Introduction and expression of foreign genetic material in epithelial cells.

Full	Title	Citation	Front	Review	Classification	Date	Reference
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